FIG.1

(PRIOR ART)

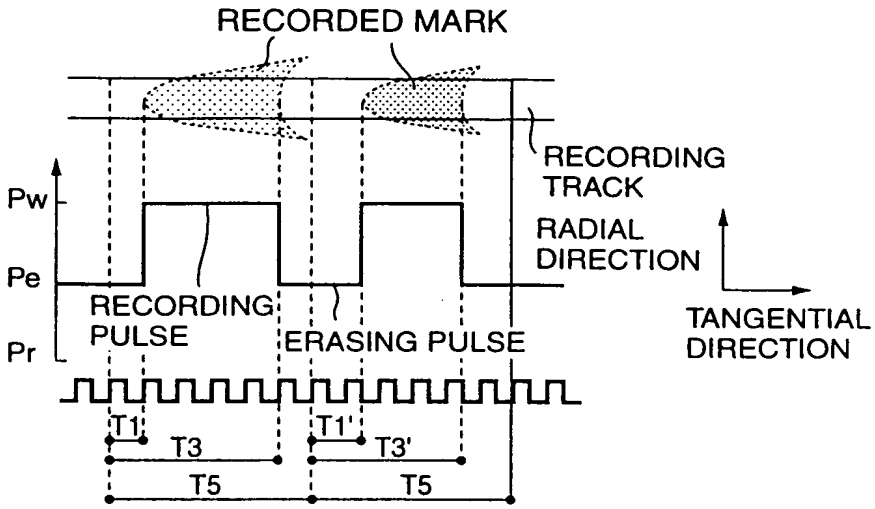

FIG.2

(PRIOR ART)

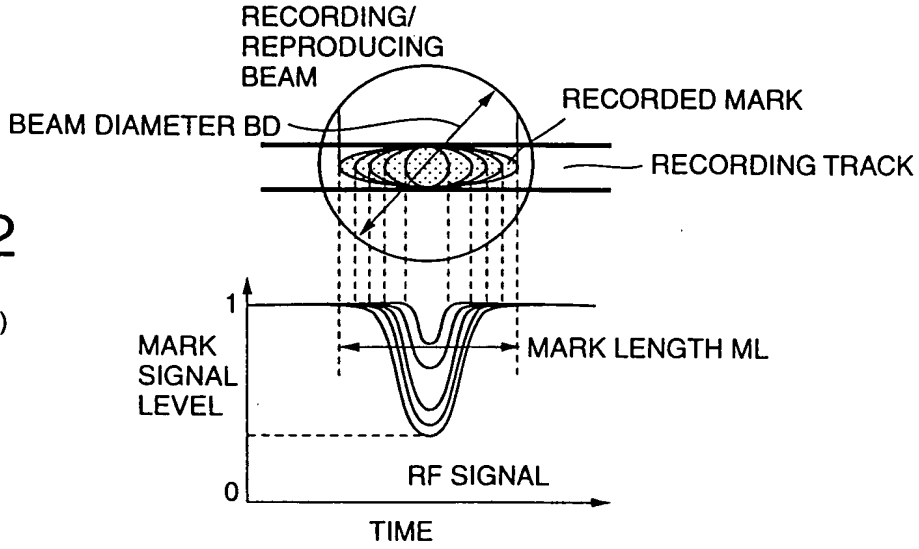

FIG.3

(PRIOR ART)

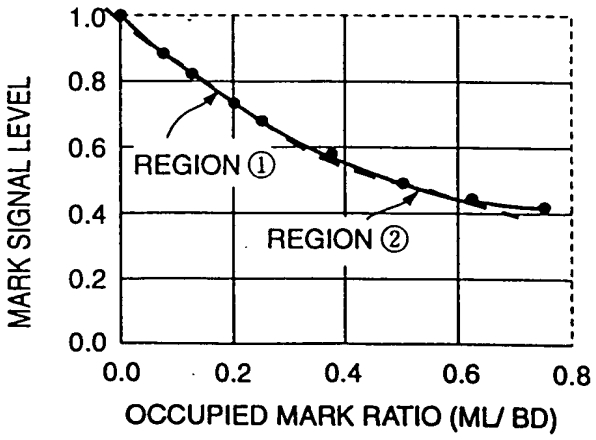

FIG.4 (PRIOR ART)

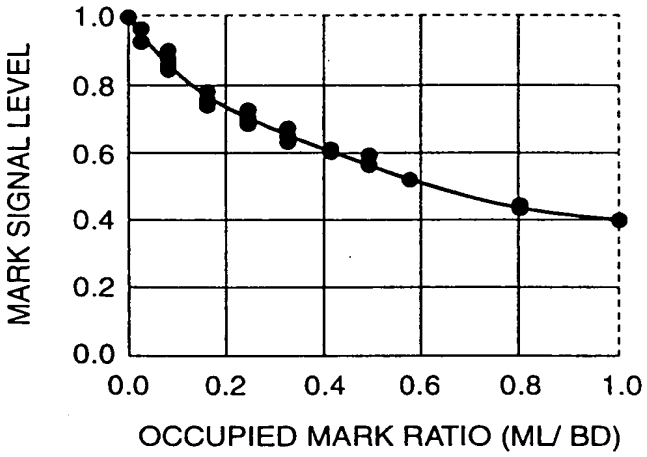

FIG.5 (PRIOR ART)

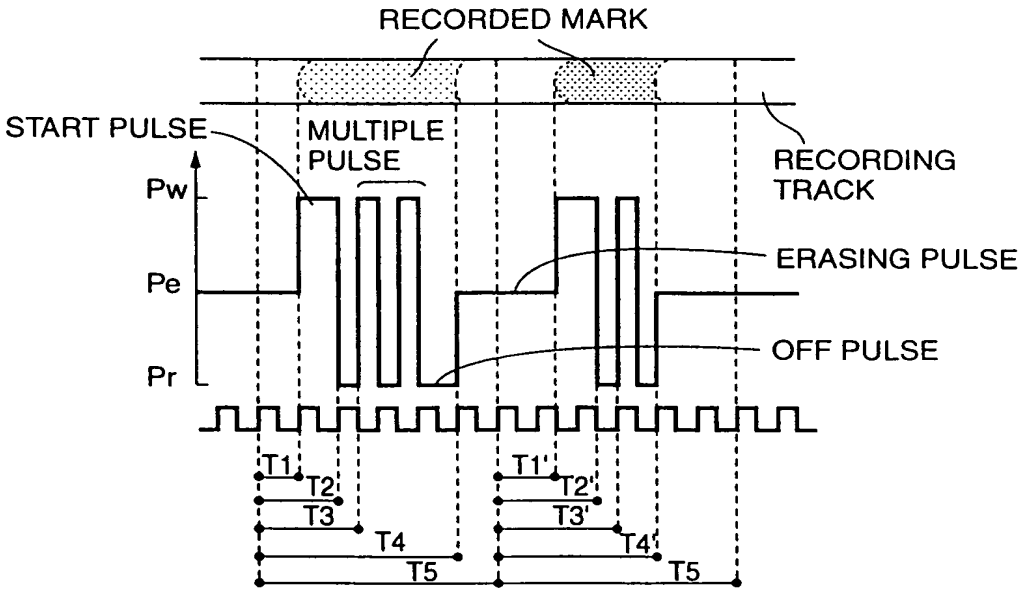

FIG.6

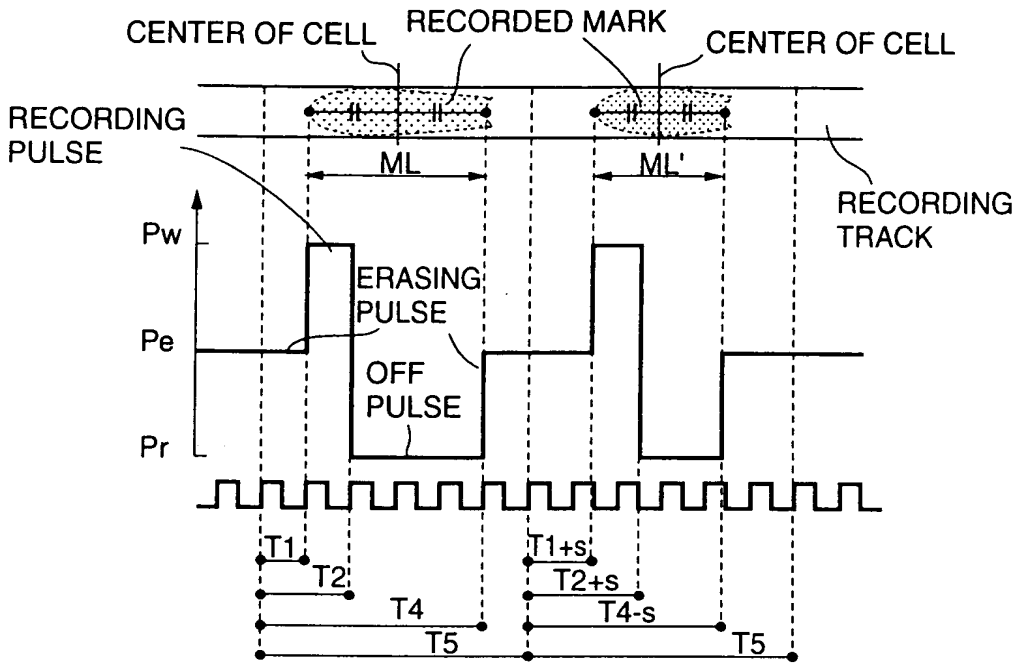
CENTER OF CELL
RECORDED MARK
CENTER OF CELL
RECORDING PULSE
ML
ML'
RECORDING TRACK
Pw
ERASING PULSE
Pe
OFF PULSE
Pr
T1
T2
T4
T5
T1+s
T2+s
T4-s
T5

FIG.7

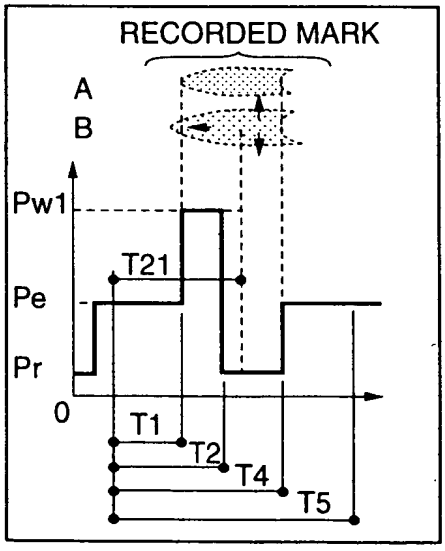
RECORDED MARK
A
B
Pw1
T21
Pe
Pr
0
T1
T2
T4
T5

FIG.8

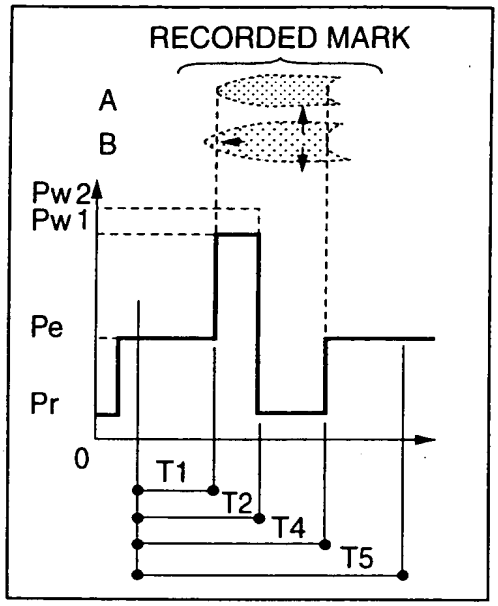
RECORDED MARK
A
B
Pw2
Pw1
Pe
Pr
0
T1
T2
T4
T5

FIG.9

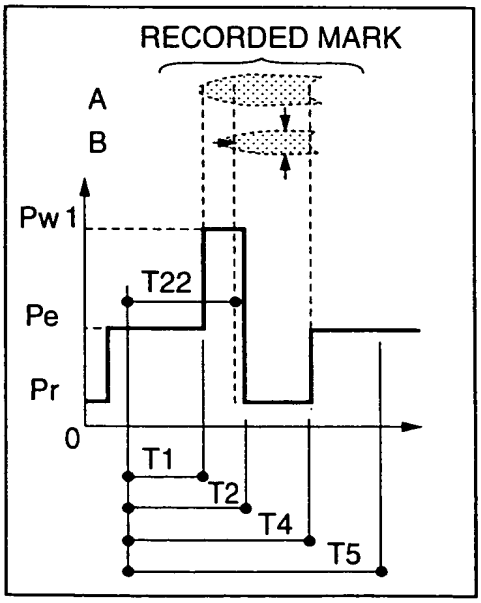
RECORDED MARK
A
B
Pw1
T22
Pe
Pr
0
T1
T2
T4
T5

FIG.10

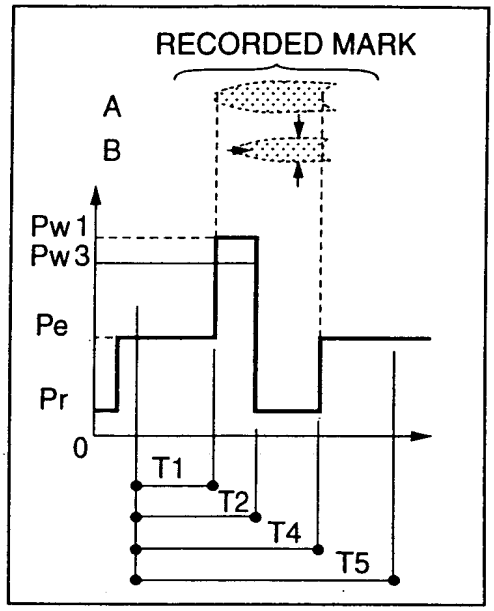
RECORDED MARK
A
B
Pw1
Pw3
Pe
Pr
0
T1
T2
T4
T5

FIG.11

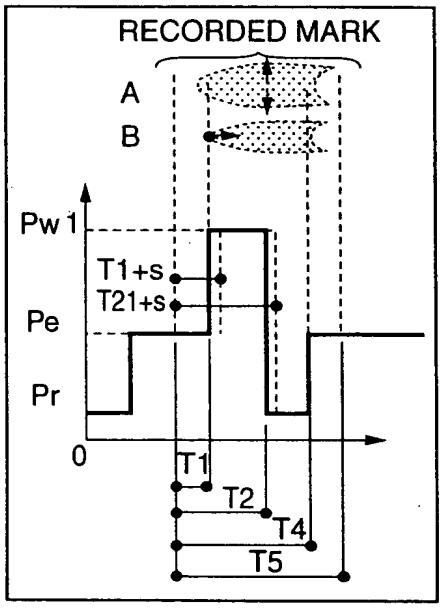
RECORDED MARK
A
B
Pw1
T1+s
T21+s
Pe
Pr
0
T1
T2
T4
T5

FIG.12

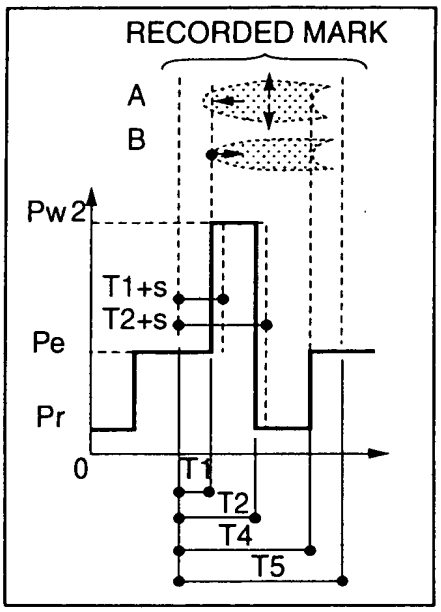
RECORDED MARK
A
B
Pw2
T1+s
T2+s
Pe
Pr
0
T1
T2
T4
T5

FIG.13

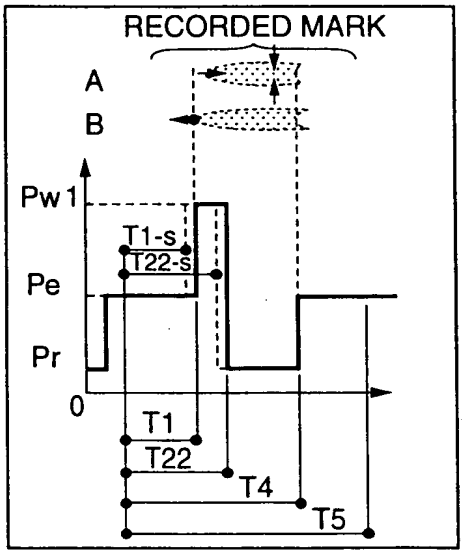
RECORDED MARK
A
B
Pw1
T1-s
T22-s
Pe
Pr
0
T1
T22
T4
T5

FIG.17

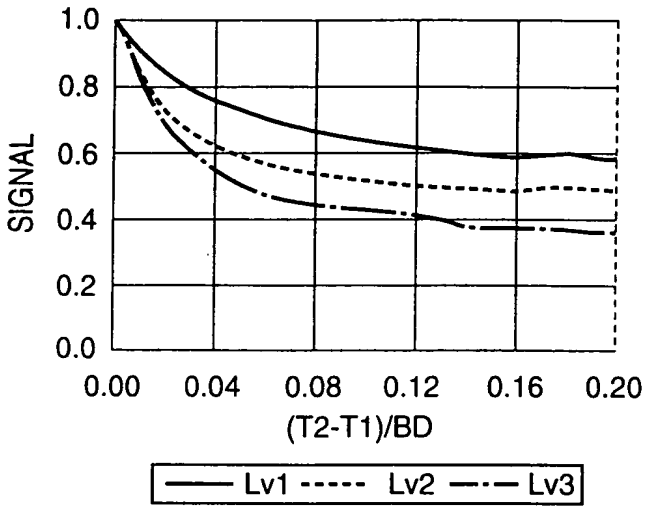

FIG.18

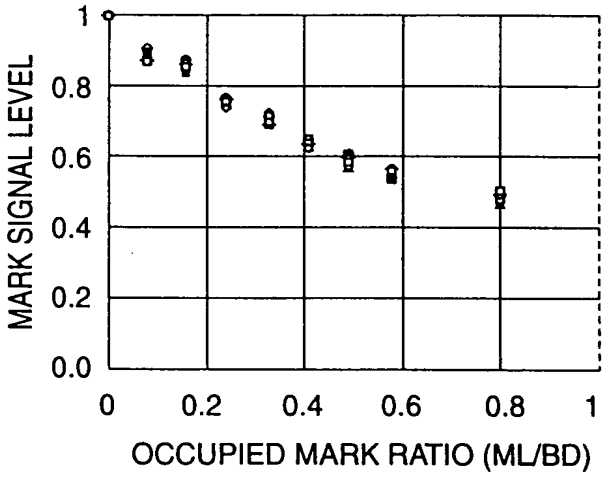

FIG.19

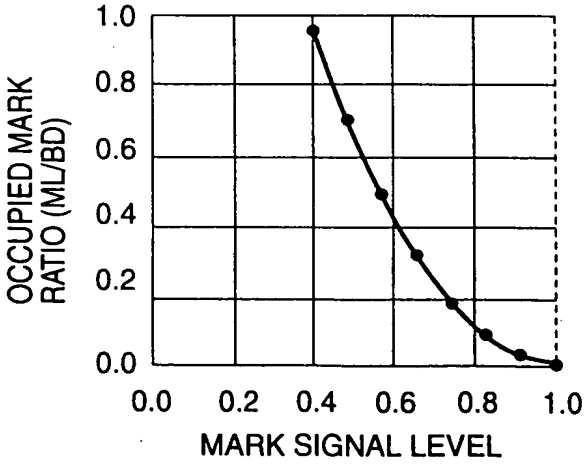

FIG.20

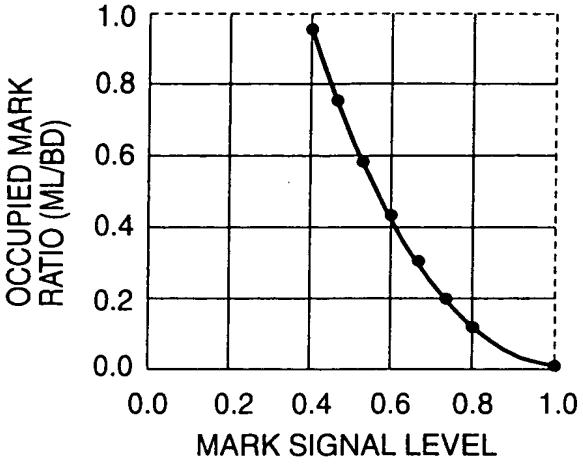

FIG.21

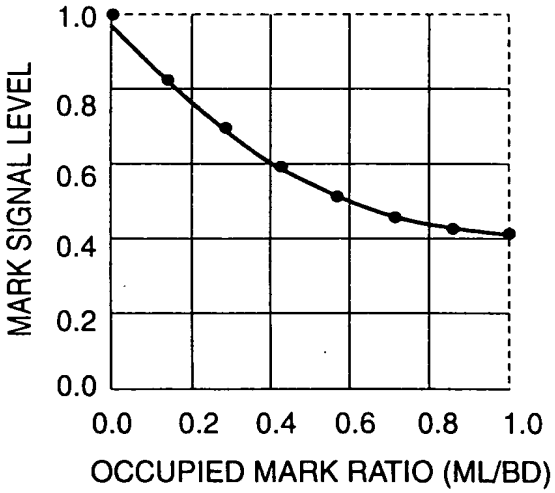

FIG.22

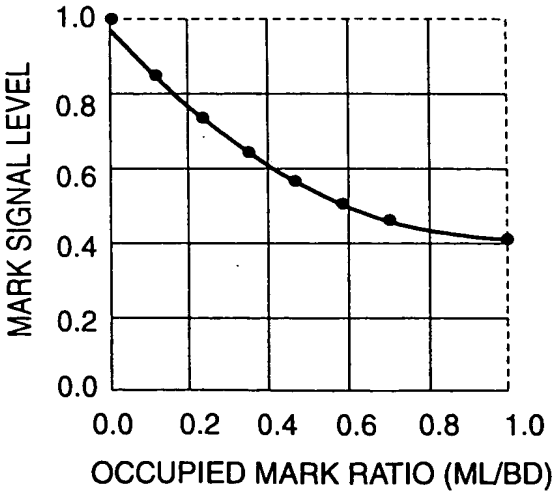

FIG.23

MARK LEVEL	OCCUPIED MARK RATIO	OCCUPIED MARK RATIO DIFFERENCE ⊿L
1.00	0.00	–
0.91	0.04	0.04
0.83	0.09	0.06
0.74	0.19	0.09
0.66	0.32	0.13
0.57	0.49	0.17
0.49	0.70	0.21
0.40	0.95	0.25

FIG.24

MARK LEVEL	OCCUPIED MARK RATIO	OCCUPIED MARK RATIO DIFFERENCE ⊿L
1.00	0.00	–
0.80	0.12	0.12
0.73	0.20	0.08
0.67	0.30	0.10
0.60	0.43	0.13
0.53	0.58	0.15
0.47	0.76	0.17
0.40	0.95	0.20

FIG.25

OCCUPIED MARK RATIO	MARK LEVEL	SIGNAL ⊿S
0.00	1.00	–
0.14	0.82	0.18
0.29	0.69	0.13
0.43	0.59	0.10
0.57	0.51	0.08
0.71	0.45	0.06
0.86	0.42	0.03
1.00	0.41	0.01

FIG.26

OCCUPIED MARK RATIO	MARK LEVEL	SIGNAL ⊿S
0.00	1.00	–
0.12	0.85	0.15
0.23	0.74	0.11
0.35	0.64	0.09
0.47	0.57	0.08
0.58	0.50	0.06
0.70	0.46	0.05
1.00	0.41	0.05